

REMARKS

In view of the above amendments and the following remarks, reconsideration and further examination are respectfully requested.

The specification and abstract have been reviewed and revised to improve their English grammar. The amendments to the specification and abstract have been incorporated into a substitute specification and abstract. Attached are two versions of the substitute specification and abstract, a marked-up version showing the revisions, as well as a clean version. No new matter has been added.

The drawings were objected to under 37 CFR 1.83(a) for failing to show every feature of the claimed invention. Specifically, the drawings were objected to for failing to show the first extracting unit, the second extracting unit, the information list generating subunit, the comparing subunit, and the filter condition setting subunit, as recited in the original claims.

The portion of the above-mentioned objection referring to the first and second extracting units is respectfully traversed for the following reasons. The specification clearly describes the TS decoder 124 of Figure 1 as carrying out the operations of the first extracting unit (see specification page 19, lines 11-23). However, in order to clarify the correspondence between the TS decoder 124 and the first extracting unit, the specification has been amended to identify the TS decoder 124 as the first extracting unit (see substitute specification). Thus, it is now clear that the TS decoder 124 of Figure 1 corresponds to the first extracting unit. Further, the specification describes the available table information table (ATT) monitoring unit 128 as carrying out the operations of the second extracting unit. However, in order to clarify the correspondence between the ATT monitoring unit 128 and the second extracting unit the specification has been amended to identify the ATT monitoring unit 128 as the second extracting unit (see substitute specification). Thus, it is now apparent that the ATT monitoring unit 128 corresponds to the second extracting unit. Therefore, withdrawal of this portion of objection is respectfully requested.

Regarding the remainder of the above-mentioned drawing objection, Figure 1 has been amended to include the information list generating subunit 135, the comparing subunit 136, the

filter condition setting subunit 137, and the update information table extracting subunit 138, as recited in the original claims. Further, the substitute specification identifies the ATT monitoring unit 128 as including the comparing subunit 136, the filter condition setting subunit 137, and the update information table extracting subunit 138, and identifies the cache controlling unit 129 as including the information list generating subunit 135. Therefore, since Figure 1 now shows the information list generating subunit 135, the comparing subunit 136, the filter condition setting subunit 137, and the update information table extracting subunit 138, withdrawal of this portion of the objection is respectfully requested.

These above-mentioned proposed drawing amendments are submitted herewith under a separate cover letter. Figure 1 has been amended to overcome a portion of the Examiner's objection to the drawings, as discussed above. In addition to the above-mentioned drawing amendments, Figure 4 has been amended to add reference number 601 to identify the CACHE INFORMATION LIST, and Figure 16 has been amended to add reference number 1701 to identify the CACHE SCHEDULE LIST. These drawing amendments do not add new matter to the application.

Claims 1-5, 7, and 9 have been cancelled without prejudice or disclaimer of the subject matter recited therein and replaced by new claims 10-16. New claims 10-16 were drafted to further distinguish the claimed invention from the references relied upon in the rejection discussed below.

Claim 9 was rejected under 35 U.S.C. § 101 for reciting non-statutory subject matter. This rejection is moot in view of the above-mentioned cancellation of claim 9. Further, claim 9 has been replaced by claim 16 which recites statutory subject matter (i.e., a computer-readable storage medium having a program stored thereon). Therefore, this rejection is considered inapplicable to new claim 16.

Claims 4 and 5 were identified by the Examiner as being allowable if rewritten in independent form to include all of the limitations of base claim 1. The Applicants would like to thank the Examiner for this indication of allowable subject matter.

Claims 1, 2, 3, 7, and 9 were rejected under 35 U.S.C. § 103(a) as being unpatentable

over Zollinger et al. (U.S. 6,321,236) in view of Cartwright et al. (U.S. 6,438,171). This rejection is believed clearly inapplicable to new claims 10-16 for the following reasons.

Claim 10 recites a digital broadcast receiving apparatus including a (1) first extracting unit operable to extract, from a (TS) transport stream (into which output tables and an update table are respectively and repeatedly multiplexed), output tables according to packet and section filters, wherein the extracted output tables are stored in a storage unit, and (2) a second extracting unit operable to extract the update table from the TS when a second version number included in the update table has been updated. In addition, claim 10 recites a comparing unit operable to (3) compare (using a list generated by a generating unit), with respect to each extracted and stored output table, a corresponding first version number included in the list with a corresponding first version number of the respective output table included in the extracted update table, and (4) identify (based on the comparison) a stored output table having a corresponding first version number that has been updated in the extracted update table. Finally, claim 10 recites a filter setting unit operable to (5) set packet and table identifiers included in the output table identified by the comparing unit, as the packet and section filters of the first extracting unit to allow the first extraction unit to extract, from the TS, an updated version of the output table identified by the comparing unit. The Zollinger and Cartwright references, or any combination thereof, fail to disclose or suggest above-mentioned distinguishing features (1)-(5) as recited in independent claim 10.

Rather, Zollinger teaches a database server 68 capable of distributing an updated version of a database to a client 48 when an update is appropriate (see Fig. 1, and abstract). Specifically, Zollinger teaches that, the client 48 transmits an intermittent request, including a current version number of the database, to the server 68, the server 68 then compares the version number received from the client 48 with a current version number stored on the server 68, and if the server 68 contains a newer version number, then the server 68 transmits an updated version of the database (see Figs. 1 and 7, abstract, and col. 3, lines 53-60).

Thus, it is clear that Zollinger teaches that an updated version of a database is transmitted from the server to the client, but does not disclose or suggest extracting, from a TS having output

tables and an update table repeatedly multiplexed therein, (i) output tables according to packet/section filters, and (ii) the update table when a second version number included in the update table has been updated, as required by claim 10. In addition, it is apparent that Zollinger fails to disclose or suggest any of distinguishing features (3)-(5) recited in claim 10, as discussed above.

In light of the deficiencies of Zollinger, the Examiner relies on Cartwright for disclosing features of the claimed invention. However, Cartwright merely teaches that a stream containing tables of data is received, wherein every table in the stream is extracted, processed, and then filtered, in order to update the appropriate tables on the receiving side (see abstract, col. 2, lines 25-33, and col. 3, lines 1-5 and 10-15).

Thus, it is evident that Cartwright teaches that every table is extracted, but does not disclose or suggest extracting the update table when a second version number included in the update table has been updated, as required by claim 10.

Further, Cartwright fails to disclose or suggest a device operable to compare, with respect to each extracted and stored output table, a corresponding first version number with a corresponding first version number of the respective output table included in the extracted update table, identify a stored output table having a corresponding first version number that has been updated in the extracted update table, set packet/table identifiers included in the output table identified by the comparing, as the packet/section filters of the first extracting unit to allow the first extraction unit to extract, from the TS, an updated version of the output table identified by the comparing unit, as recited in claim 10.

In addition, it is noted that the receiving apparatus of claim 10 is configured to extract an update table, and if information contained in the update table indicates that an output table multiplexed into the TS is an updated version of a stored output table, then parameters of the receiving apparatus are adjusted to extract the updated version of the stored output table. This configuration results in selective extraction of the output tables. In contrast, Cartwright teaches extracting every table included in the stream. Thus, it is clear that Cartwright does not disclose or suggest the above-described selective extraction of the output tables, which is a much more

efficient method of updating information from a TS. Therefore, because of the above-mentioned distinctions it is believed clear that claims 10-14 would not have been obvious or result from any combination of Zollinger and Cartwright.

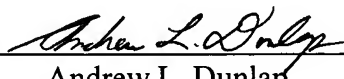
Furthermore, there is no disclosure or suggestion in Zollinger or Cartwright, or elsewhere in the prior art of record which would have caused a person of ordinary skill in the art to modify Zollinger or Cartwright to obtain the invention of independent claim 10. Accordingly, it is respectfully submitted that independent claim 10 and claims 11-14 which depend therefrom are clearly allowable over the prior art of record.

Amended independent claims 15 and 16 recite a method and program, respectively, including features that correspond to the above-mentioned distinguishing features of independent claim 10 (e.g., selective extraction of output tables and update table). Thus, for the same reasons discussed above, it is respectfully submitted that claims 15 and 16 are allowable over Zollinger and Cartwright.

In view of the above amendments and remarks, it is submitted that the present application is now in condition for allowance and an early notification thereof is earnestly requested. The Examiner is invited to contact the undersigned by telephone to resolve any remaining issues.

Respectfully submitted,

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